

Estimation of Sockeye and Coho Salmon Escapement in Mortensens Creek, Izembek National Wildlife Refuge, 2005

Abstract: A fixed picket weir was operated on Mortensens Creek from 1 July to 4 October 2005. Sockeye salmon *Oncorhynchus nerka* was the most abundant species counted through the weir ($N=21,703$) followed by coho *O. kisutch* ($N=4,162$), pink *O. gorbuscha* ($N=164$), and chum salmon *O. keta* ($N=13$). Dolly Varden *Salvelinus malma* ($N=153$), Bering cisco *Coregonus laurettae* ($N=27$), and starry flounder *Platichthys stellatus* ($N=12$) were also observed at the weir. Sockeye salmon sampled at the weir were 54% female, and represented eleven age groups. Age 1.3 was estimated to be 66% of the run, age 2.3 was 17% and age 1.2 was 14%. The length for male sockeye salmon ranged from 374 to 632 mm and from 438 to 600 mm for females. Coho salmon sampled at the weir were 45% female and represented five age groups. Age 2.1 comprised 53% of the run and age 1.1 was 43%. The length coho salmon ranged from 344 to 710 mm for males and from 487 to 679 mm for females.

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